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Volume 25 | Issue 2

Article 4

1962

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Recommended Citation

Duncan, J. R.; Lederer, H. A.; Ramsey, F. K.; and Tyler, D. E. (1962) "Fibrous dysplasia in a Monkey," *Iowa State University Veterinarian*: Vol. 25 : Iss. 2 , Article 4.

Available at: https://lib.dr.iastate.edu/iowastate_veterinarian/vol25/iss2/4

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Fibrous dysplasia in a Monkey

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Fibrous dysplasia is a syndrome characterized by dysplastic fibro-osseous skeletal changes. The syndrome has been described in the literature under a number of different terms including osteodys-trophia fibrosa, polyostotic osteitis fibrosa,

regional fibrocystic disease, osteitis fibrosa cystica, and fibrous dysplasia. The disease has been reported in dogs (1, 6, 7), horses (3, 9), swine (4), monkeys (2, 8), and man (5).

This report concerns a 4½ year old male spider monkey. The animal was presented with bilateral enlargement of the maxilla and slight enlargement of the mandible. These enlargements had been



Figure 1. A 4½ year old spider monkey showing a large proliferative lesion involving the mouth.

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Figure 2. The head of the monkey in figure 1 showing bilateral thickening of the maxilla.

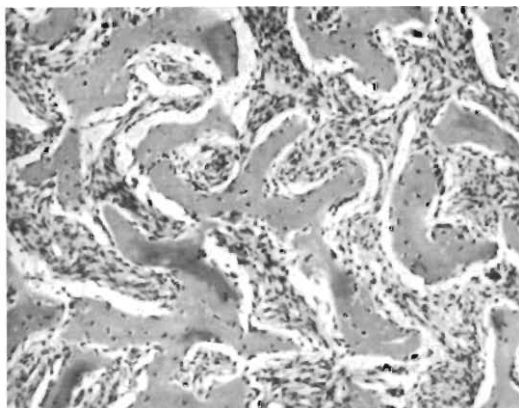


Figure 3. A section from the maxilla showing dense fibrous tissue trabeculated with poorly calcified bone. H & E X100.

present for 3 months. On clinical observation the monkey was unable to close its mouth and hemorrhage occurred from traumatized areas. The teeth were loosely embedded and the proliferative mass encroached on the nasal cavity.

Microscopically the affected tissue was filled with moderately dense fibrous tissue trabeculated with poorly calcified bone. Inflammatory cells were absent and vascularity was at a minimum. Anaplasia or mitotic figures were not seen.

The cause of the condition has not been clarified. Nutritional, genetic, and hormonal causes have been suggested. Low calcium, high phosphorous diets (9) and hyperparathyroidism (7) have been shown to produce similar syndromes in various animals.

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